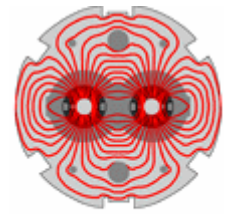


LHC@FNAL Requirements Review

Erik Gottschalk
July 21, 2005



LHC@FNAL Charge



LARP

LHC@FNAL charge from Director Mike Witherell (April 2005):

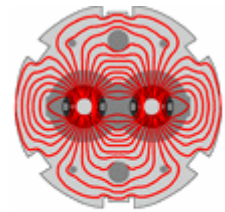
- Define the high level requirements for a remote operations center for commissioning and operations of CMS and the LHC accelerator.
- Develop cost and schedule estimates for the implementation of a remote operations center.

I would like the committee to prepare a **preliminary report** by the **end of July 2005**, describing the requirements and scope of a remote operations center located at Fermilab.

The committee should prepare its final report, including a resource loaded schedule, by the end of 2005.



Charge for the Review



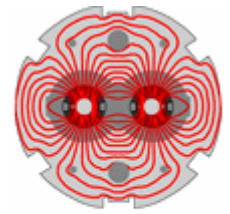
LARP

LHC@FNAL is a new facility that is to be built at Fermilab to support work on the CMS experiment at the Large Hadron Collider (LHC) at CERN, and to support active participation in LHC accelerator activities.

The purpose of LHC@FNAL is to facilitate communication between CERN and members of the LHC community located in North America, and to help members of this community contribute their expertise to accelerator activities and the CMS experiment.



Charge for the Review



LARP

Reviewers are asked to assess the scope of LHC@FNAL as defined by the requirements document, and are asked to address the following items:

- Will LHC@FNAL allow experts located at Fermilab to participate effectively in CMS detector and LHC machine activities including commissioning, operations, maintenance, and upgrades when they are unable to travel to CERN?
- Do the requirements adequately address the needs of members of the LHC community in North America, such as members of US-CMS and US/LARP?
- Do any of the requirements imply possible violations of CERN or FNAL safety or security standards?
- Do any of the requirements suggest that significant resources from CERN may be needed for LHC@FNAL?
- Are the requirements sufficiently developed to serve as a basis for developing cost and schedule estimates for the LHC@FNAL facility?